

ANNEX B

Subject: Bio-Rad Definition of pre-alpha prototype

We met today the proteomics engineering group.

Participants were:

- George Fernwood, R&D manager Laboratory Devices Dev. (LDD)
- Tim. Elony, Senior staff Eng.
- Randy Gordon-Gilmore, Senior Mech. Eng.
- Jhon Barish, Project manager.

Each participant have 9 to 20 years experience in Bio-Rad.

After presenting the ProteOn™ and discussion, we constructed table including main risks factors of the project and what will be the logical progress reprocess.

The following table summarizes the different prototypes and the subsystems that it should include.

- No need in the prototype
- X Needed in the prototype

Hi Risk: 5

Low Risk: 1

Major Risks (risk level)	Alpha-1 Today's status	Alpha-2	Alpha-3	Beta*	Product
	4x4 channels	12x8 Channels	12x8 Channels	12x8 Channels	12x8 Channels
Micro Fluidics (5)	-	X	X	X	X
Macro Fluidics (4)	-	X	X	X	X
Macro/Micro coupling (5)	-	X	X	X	X
XrissXross robotics, alignment (2)	-	Manual	Manual + const. pressure	X	X
Temp. (2-3)	-			X	X
Autosampler (2)	-	1 injector only, 3 needles**	X	X	X
Kinematics (3)	-	X	X	X	X
Data Management (2)	-	12 spots	X	X	X
Optics (1)	X	X	X	X	X
Septum (2)	X	X	X	X	X

* - Parts from the final supplier

** This configuration includes 1 injector and 3 needles to imitate the pressure on the rubber and to test its deformation.

Currently we are 4x4 channels stage. Alpha -2 (ProteOn™) is the next prototype. It was suggested that this prototype will be tested at Bio-Rad.

What is the time table to achieve this stage?